

To: Durno, Mark[durno.mark@epa.gov]
From: Scott Smith
Sent: Thur 12/15/2016 1:25:47 PM
Subject: Ex. 6 - Personal Privacy House / VA Tech Questions
Ex. 6 - Personal Privacy 1609133 Report Sep-2016.pdf
Final 1611246 Report VOB.pdf

Mark,

Attached is the detailed testing report for the Ex. 6 - Personal Privacy Flint home from September 2016. The Ex. 6 - Personal Privacy family continues to report continued health issues.

Note that this is after the premise plumbing was replaced along with the service line. As part of our follow up testing, we wanted to test the entire home for the state of the water as it enters the home from the distribution system (at meter) along with the shower. This testing procedure is the same as I have been using in conjunction with my collaboration with the UA370 (Ben Ranger and Harold Harrington) in over 20 other homes in Flint.

As the water enters the Ex. 6 - Personal Privacy Flint home we found the following:

- **Metals:** Copper 720 ppb, Iron 880 ppb, Lead 530 ppb, Phosphorus 1200 ppb, Zinc 84 ppb. Continued questions I have been discussing with Wayne State and other experts relate to the presence of high levels of Iron and Phosphorus (nutrients/food for bacteria) in the distribution system. So, given Wayne State's presentation and preliminary findings related to filters: filters are necessary for lead removal but given high levels of iron/phosphate compounds in the water (food for bacteria), does this mean as lead is removed by filters other problems can be created potentially with bacteria? Given Wayne State's presentation of preliminary findings last night, I believe these questions are now more important along with gathering more data and research.
- **Volatile Organic Compounds:** Chloroform 19 ppb and Bromodichloromethane 7.2 ppb.

Note that I am aware of VA Tech's recent reports related to Volatile Organic Compounds ("DPB's") on testing homes inside Flint and outside of Flint and what appears to be Marc Edward's conclusions that Flint is no different than any other city.

I am concerned about drawing any final and definitive conclusions given the sampling sizes for anyone's research at this point – whether DBP's or Bacteria.

I believe we need more data and research before any definitive conclusions can be drawn. For example, I am aware that VA Tech tested 2 homes in Flint (but not at water meter to understand state of water as it enters a premise) and then compared these 2 homes to a commercial building outside of Flint and a Hotel outside of Flint.

Also, I am aware that VA Tech did some comparative testing to some other cities but without seeing the detailed testing reports and understanding more about the data points, how can any definitive conclusions be made?

Note that I have also attached a report of a control city test I did in Riverview, FL where we had non-detects for Chloroform and Bromodichloromethane at the water meter and in the shower, but no definitive conclusions can be made until we have more data (we do have other cities that show non-detects too).

In the Ex. 6 - Personal Privacy shower we found the following:

- **Volatile Organic Compounds:** Chloroform 22 ppb and Bromodichloromethane 7.7 ppb.
- **Metals:** Copper 42 ppb and Phosphorus 980 ppb

I would like to know when we can get copies of the detailed testing reports including the details about the sites tested (similar to the attached) for Flint and the cities outside of Flint from the EPA funded research done by VA Tech?

Thanks and I will also be summarizing our bacteria findings to date and sending to you shortly.

Best Regards,

Scott C. Smith
Cell (508) 345-6520
Twitter: @WaterWarriorOne